SIRECT ELECTRONIC

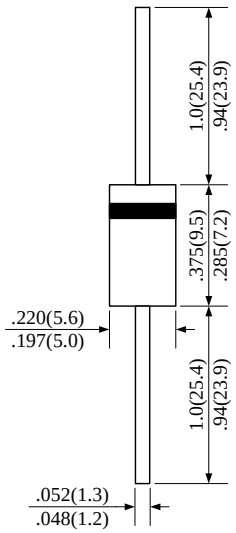
SB340H~SB3100H

Power Schottky Rectifier - 3Amp 40~100Volt

☐ Features

-Low forward voltage drop
-High current capability
-High reliability
-High surge current capability
-Epitaxial construction
-Halogen-Free

DO-27 / DO-201AD



☐ Mechanical data

-Case : Molded plastic
-Epoxy : UL 94V-0 rate flame retardant
-Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
-Polarity : Color band denotes cathode end
-Mounting position : Any
-Weight : 1.10 grams

☐ Maximum ratings and Electrical characteristics

TYPE		SB340H	SB360H	SB3100H	UNIT
Maximum Recurrent Peak Reverse Voltage		40	60	100	V
Maximum RMS Voltage		28	42	70	V
Maximum DC Blocking Voltage		40	60	100	V
Maximum Average Forward Rectified Current		3.0			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		80			A
Maximum Instantaneous Forward Voltage at 3.0A		0.55	0.65	0.82	V
Repetitive peak avalanche power, tp = 1μs Tj = 25 °C		1300	2000		W
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta = 25°C	0.5	0.3	0.01	mA
	Ta = 100°C	20	15	10	
Typical Junction Capacitance		250			pF
Typical Thermal Resistance $R_{\theta JA}$		20			°C/W
Operating Temperature Range T_J		-50 to +150		-50 to +175	°C
Storage Temperature Range T_{STG}		-50 to +150			

Note: Pulse Test : 380μs pulse width, 2% duty cycle

June 2009 / Rev.6.4

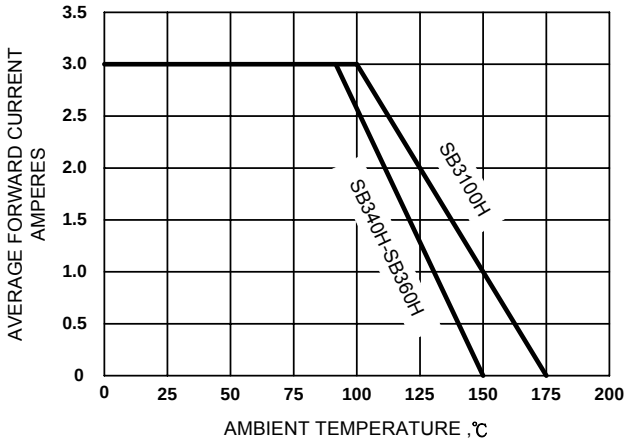


Figure 1. Forward Current Derating Curve

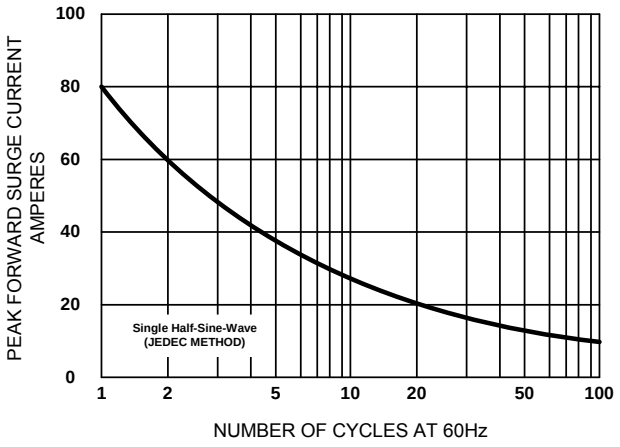


Figure 2. Maximum Non-repetitive Surge Current

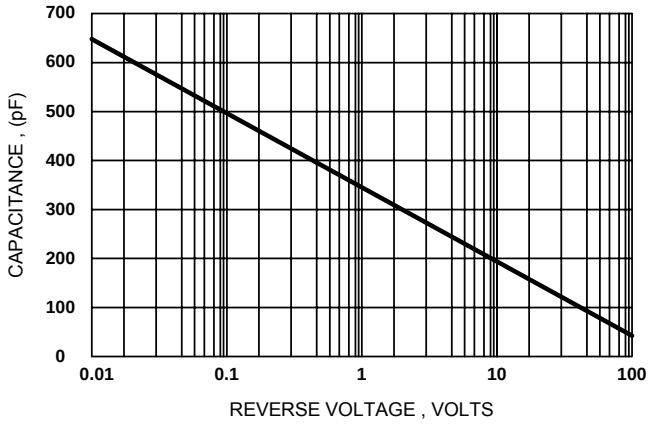


Figure 3. Typical Junction Capacitance

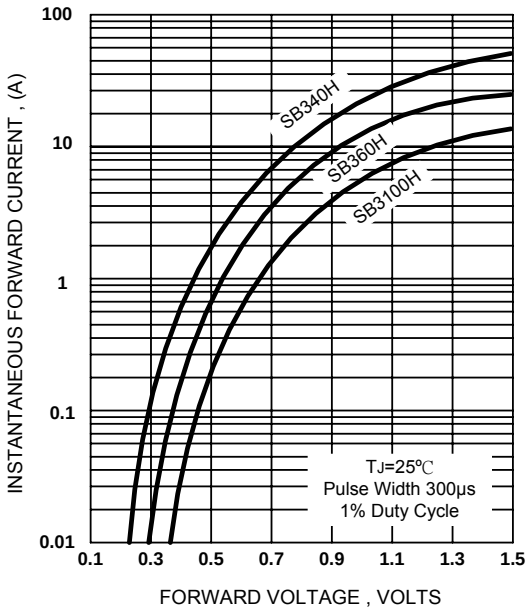


Figure 4. Typical Forward Characteristics

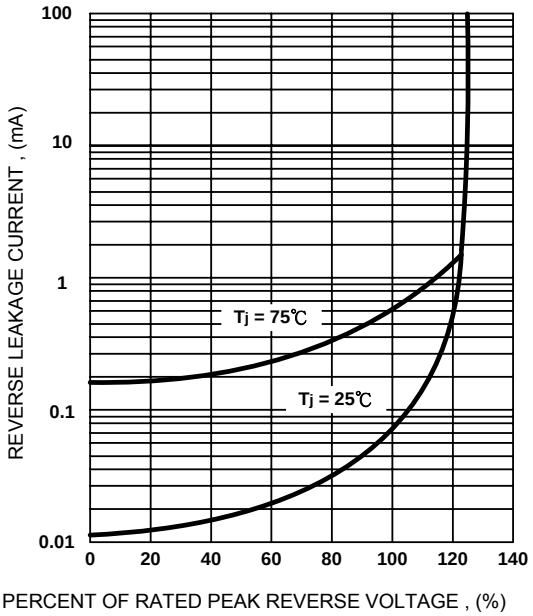


Figure 5. Typical Reverse Characteristics